## **Reagents of CK-MB**

R۱ (buffer & coenzymes)	R۲ (enzymes):
Imidazol	ADP
Glucose	AMP
Acetyl cysteine	GኘPDH
Mg-acetate	<b>Creatine Phosphate</b>
NADP	Hexokinase (HK).
EDTA.	Anti-human CK-M

## Principle of CK-MB

>Aspecific antibody inhibits the M subunits of CK-MM and CK-MB and thus allows determination of B subunit of CK-MB (assuming the absence of CK-BB or CK-<sup>1</sup>). CK-B catalytic concentration, which corresponds to half of CK-MB concentration, is determined from the rate of NADPH formation, measured at  $\forall \varepsilon \cdot$  nm, by means of hexokinase (HK) and glucose-<sup>¬</sup>-phosphate the dehydrogenase (G<sup>7</sup>PDH) coupled reaction 1,<sup>r</sup>.



Creatine Phosphate + ADP **CK** Creatine + ATP

#### • ATP + Glucose <u>**HK**</u> ADP + glucose-<sup>¬</sup>-phosphate

• Glucose-٦-phosphate + NADP+ <u>**G**</u><sup>↑</sup>**PDH** → <sup>¬</sup>. Phosphogluconate + NADPH +H<sup>+</sup>





#### $\times$ ml W.R + ° · $\mu$ serum.

- mix and incubate <sup>r</sup> min and read initial absorbance
- start the stop watch and read after `, ` "
- calculate  $\Delta A/min$





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#### Normal value:

# 7% of total CK Up to ۲° U/L

